# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 1 | ("5802220").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/10 16:15 |
| S2 | 1 | ("5715325").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/10 16:17 |
| S3 | 3246 | face with tracking | US-PGPUB; USPAT | OR | ON | 2007/12/10 17:49 |
| S4 | 8674 | ((382/118,218,190,276,103,107, 115,190) or (345/589)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/10 17:50 |
| S5 | 1057 | S4 and ((face or head) with (track$4 or follow$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/10 17:52 |
| S6 | 299 | S4 and ((face or head) with (track$4 or follow$4) and predict$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/10 17:52 |
| S8 | 108 | S4 and ((face or head) with (track$4 or follow$4) and (predict$4 or estimat$5) and (video near sequence) and detector) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/10 17:54 |
| S9 | 8687 | ((382/118,218,190,276,103,107, 115,190) or (345/589)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/11 07:31 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S10 | 215 | S9 and ((face or head) with (track$4 or follow$4) and (predict$4 or estimat$5) and (video near sequence)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 07:47 |
| S11 | 108 | S9 and ((face or head) with (track$4 or follow$4) and (predict$4 or estimat$5) and (video near sequence) and detector) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:08 |
| S12 | 8687 | ((382/118,218,190,276,103,107, 115,190) or (345/589)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/11 14:09 |
| S13 | 361 | S12 and ((object) with (detect) and (threshold) and (second) and detector) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:10 |
| S14 | 1 | S12 and ((object) with (detect) and (reduce near threshold) and (second) and detector) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:11 |
| S15 | 3 | S12 and ((object) with (detect) and (reduce near threshold)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:13 |
| S16 | 4 | S12 and ((object or face) with (detect$4) and (reduce near threshold)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:15 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S17 | 7 | S12 and ((object or face) with (detect$4) and (reduce near precision)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:18 |
| S18 | 0 | S12 and ((object or face) with (detect$4) and (reduce near detail) and retry) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:18 |
| S19 | 2 | S12 and ((object or face) with (detect$4) and (reduce near detail) and repeat) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:20 |
| S20 | 1 | S12 and ((object or face) with (detect$4) and (method near fail) and repeat) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 14:21 |
| S21 | 73 | S12 and ((object or face) with (detect$4) and (heuristic$) and repeat) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 15:36 |
| S22 | 63 | S12 and ((object or face) with (track$4) and (heuristic$) and repeat) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 15:36 |
| S23 | 1 | S12 and ((object or face) with (track$4) and (heuristic$) and (repeat with lower)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 15:37 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S24 | 0 | S12 and ((object or face) with (track$4) and (heuristic$) and (false near reject)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 15:38 |
| S25 | 3 | S12 and ((object or face) with (track$4) and (false near reject)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 17:51 |
| S26 | 0 | S12 and ((object or face) with (track$4) and (fine adj to adj coarse)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 17:51 |
| S27 | 10 | S12 and ((object or face) with (track$4) and ((fine or detail) adj2 (coarse or general))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/11 17:52 |
| S28 | 0 | ((348/*) or (340/5.5.2,5,8.2)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/12 16:17 |
| S29 | 2 | ("0000348").PN. or (340/5.5.2,5,8.2).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/12 16:18 |
| S30 | 144400 | (340/5.5.2,5,8.2).CCLS. or ("348").CLAS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/12 16:20 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S31 | 144920 | (340/5.53,5.83).CCLS. or ("348"). CLAS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/12 16:21 |
| S32 | 8687 | ((382/118,218,190,276,103,107, 115,190) or (345/589)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/12 16:21 |
| S33 | 108 | S32 and ((face or head) with (track$4 or follow$4) and (predict$4 or estimat$5) and (video near sequence) and detector) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/12 16:22 |
| S34 | 108 | S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/12 16:21 |
| S35 | 67 | S31 and ((face or head) with (track$4 or follow$4) and (predict$4 or estimat$5) and (video near sequence) and detector) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/12 16:22 |
| S36 | 48246 | PORTER PORTER-R PORTER-ROBERT | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/13 07:53 |
| S37 | 98 | S36 and (face with detector) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/13 11:02 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S38 | 1 | ("6408301").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/13 11:24 |
| S39 | 0 | ("200103292").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/13 11:25 |
| S40 | 0 | ("2001053292").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/13 11:25 |
| S41 | 1 | ("20010053292").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/13 11:40 |
| S42 | 1 | ("20020031262").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/13 11:40 |
| S43 | 0 | ("(faceorhead)anddetect$6andtrack$5andvideoand(facenear2position)").PN. | US-PGPUB | OR | OFF | 2007/12/18 08:46 |
| S44 | 12935 | (head or face) and track$5 and detect$5 and (video or sequence) and threshold | US-PGPUB | OR | ON | 2007/12/18 08:47 |
| S45 | 70 | ((head or face) and track$5 and detect$5 and (video or sequence) and threshold).clm. | US-PGPUB | OR | ON | 2007/12/18 08:48 |
| S46 | 33 | ((head or face) and track$5 and detect$5 and (video or sequence) and threshold and detector).clm. | US-PGPUB | OR | ON | 2007/12/18 08:48 |
| S47 | 8714 | ((382/118,218,190,276,103,107,115,190) or (345/589)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/18 17:43 |
| S48 | 153 | S47 and eigen | US-PGPUB; USPAT | OR | ON | 2007/12/18 17:43 |
| S49 | 8714 | ((382/118,218,190,276,103,107,115,190) or (345/589)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/19 07:39 |
| S50 | 107 | S49 and eigen and face | US-PGPUB; USPAT | OR | ON | 2007/12/19 08:10 |
| S51 | 0 | S49 and face and (project$5 with area with eigen) | US-PGPUB; USPAT | OR | ON | 2007/12/19 08:11 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S52 | 0 | face and (project$5 with area with eigen) | US-PGPUB; USPAT | OR | ON | 2007/12/19 08:12 |
| S53 | 35 | face and eigen and (project$5 with area) | US-PGPUB; USPAT | OR | ON | 2007/12/19 09:50 |
| S54 | 24 | face and (eigen with area) | US-PGPUB; USPAT | OR | ON | 2007/12/19 10:01 |
| S55 | 1 | ("5680481").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/19 10:01 |
| S56 | 0 | ("S47and(facewithdetect$5)andsurveillance").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/12/19 11:43 |
| S57 | 258 | "47" and (face with detect$5) and surveillance | US-PGPUB; USPAT | OR | ON | 2007/12/19 11:43 |
| S58 | 140 | ("47" and (face with detect$5) and surveillance) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 11:44 |
| S59 | 387 | "47" and track$5 and (detect$5 with fail) and predict and (abandon or quit or stop) | US-PGPUB; USPAT | OR | ON | 2007/12/19 13:51 |
| S60 | 176 | ("47" and track$5 and (detect$5 with fail) and predict and (abandon or quit or stop)) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 13:53 |
| S61 | 8 | (S49 and track$5 and (detect$5 with fail) and predict and (abandon or quit or stop)) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 15:17 |
| S62 | 0 | (S49 and (track$5 with loss) and (detect$5) and predict and (abandon or quit)) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 15:18 |
| S63 | 5 | (S49 and (track$5 with loss) and (abandon or quit or stop)) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 15:24 |
| S64 | 51 | (S49 and (track$5 with (loss or miss or fail or skip) and (estimate or guess or predict))) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 16:06 |
| S65 | 0 | (S49 and ((multiple near5 track$5) with (loss or miss or fail or skip))) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 16:07 |
| S66 | 163 | (S49 and ((multiple near5 track$5))) and @ay<"2003" | US-PGPUB; USPAT | OR | ON | 2007/12/19 16:07 |
| S67 | 2 | redding.xa. and "382".clas. | US-PGPUB; USPAT | OR | ON | 2007/12/19 16:26 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S68 | 48286 | PORTER PORTER-R PORTER-ROBERT-M PORTER-ROBERT-MARK-STEFANP ORTER-ROBERT-MARK-STEPHAN PORTER-ROBERT-M-S PORTER-ROBERT-STEFAN PORTER-ROBERT-STEPHEN | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/20 07:54 |
| S69 | 11478 | (PORTER PORTER-R PORTER-ROBERT-M PORTER-ROBERT-MARK-STEFANP ORTER-ROBERT-MARK-STEPHAN PORTER-ROBERT-M-S PORTER-ROBERT-STEFAN PORTER-ROBERT-STEPHEN).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/20 07:54 |
| S70 | 177 | (PORTER PORTER-R PORTER-ROBERT-M PORTER-ROBERT-MARK-STEFANP ORTER-ROBERT-MARK-STEPHAN PORTER-ROBERT-M-S PORTER-ROBERT-STEFAN PORTER-ROBERT-STEPHEN).in. and (tracking) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/20 07:56 |
| S71 | 1 | (PORTER-R PORTER-ROBERT-M PORTER-ROBERT-MARK-STEFANP ORTER-ROBERT-MARK-STEPHAN PORTER-ROBERT-M-S PORTER-ROBERT-STEFAN PORTER-ROBERT-STEPHEN).in. and (tracking) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/20 07:56 |
| S72 | 19 | (PORTER-R PORTER-ROBERT-M PORTER-ROBERT-MARK-STEFAN PORTER-ROBERT-MARK-STEPHAN PORTER-ROBERT-M-S PORTER-ROBERT-STEFAN PORTER-ROBERT-STEPHEN).in. and (tracking) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/20 08:01 |
| S73 | 20 | (RAMBARUTH RAMBARUTH-R RAMBARUTH-RANA RAMBARUTH-RATNA).in. and (tracking) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/20 08:05 |
| S74 | 102 | (HAYNES-S HAYNES-SIMON HAYNES-SIMON-D HAYNES-SIMON-DOMINIC).in. and (tracking) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/20 08:19 |

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Vetter, T.; Poggio, T.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 19, Issue 7, July 1997 Page(s):733 - 742
Digital Object Identifier 10.1109/34.598230
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Moghaddam, B.; Pentland, A.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 19, Issue 7, July 1997 Page(s):696 - 710
Digital Object Identifier 10.1109/34.598227
AbstractPlus | References | Full Text: PDF(4440 KB) **IEEE JNL**
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**1** Distributed ray tracing

Robert L. Cook, Thomas Porter, Loren Carpenter

January 1984 **ACM SIGGRAPH Computer Graphics , Proceedings of the 11th annual conference on Computer graphics and interactive techniques SIGGRAPH '84**, Volume 18 Issue 3

**Publisher:** ACM Press

Full text available: pdf(909.54 KB) Additional Information: full citation, abstract, references, citings, index terms

Ray tracing is one of the most elegant techniques in computer graphics. Many phenomena that are difficult or impossible with other techniques are simple with ray tracing, including shadows, reflections, and refracted light. Ray directions, however, have been determined precisely, and this has limited the capabilities of ray tracing. By distributing the directions of the rays according to the analytic function they sample, ray tracing can incorporate fuzzy phenomena. This provides c ...

**Keywords**: Camera, Constructive solid geometry, Depth of field, Focus, Gloss, Motion blur, Penumbras, Ray tracing, Shadows, Translucency, Transparency

**2** Contributed session 2: Towards a general theory of non-cooperative computation

Robert McGrew, Ryan Porter, Yoav Shoham

June 2003 **Proceedings of the 9th conference on Theoretical aspects of rationality and knowledge TARK '03**

**Publisher:** ACM Press

Full text available: pdf(577.66 KB) Additional Information: full citation, abstract, references, citings, index terms

We generalize the framework of non-cooperative computation (NCC), recently introduced by Shoham and Tennenholtz, to apply to cryptographic situations. We consider functions whose inputs are held by separate, self-interested agents. We consider four components of each agent's utility function: (a) the wish to know the correct value of the function, (b) the wish to prevent others from knowing it, (c) the wish to prevent others from knowing one's own private input, and (d) the wish to know other ag ...

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  ```

  You can also enter a full question or concept in plain language.

  ```
  Where are the sales offices?
  ```

- Capitalize proper nouns to search for specific people, places, or products.

  ```
  John Colter, Netscape Navigator
  ```

- Enclose a phrase in double quotes to search for that exact phrase.

  ```
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  ```

- Narrow your searches by using a + if a search term must appear on a page.

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  ```

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Relevance scale

1 Seeking inspiration from design: Collaborative architecture design and evaluation

Steven R. Haynes, Amie L. Skattebo, Jonathan A. Singel, Mark A. Cohen, Jodi L. Himelright

June 2006 **Proceedings of the 6th conference on Designing Interactive systems DIS '06**

**Publisher:** ACM

Full text available: pdf(305.74 KB) Additional Information: full citation, abstract, references, index terms

In this paper we describe a collaborative environment created to support distributed evaluation of a complex system architecture. The approach couples an interactive architecture browser with collaborative walkthroughs of an evolving architectural representation. The collaborative architecture browser was created to facilitate involvement of project stakeholders from geographically dispersed, heterogeneous organizations. The paper provides a rationale for the approach, describes the system creat ...

**Keywords:** architecture, design, evaluation, integration

2 Systems biology and malaria

Elizabeth A. Winzeler, Karine G. Le Roch, Yingyao Zhou, Peter L. Blair, Muni Grainger, J. Kathleen Moch, J. David Haynes, Patricia De la Vega, Anthony A. Holder, Serge Batalov, Daniel J. Carucci

March 2004 **Proceedings of the eighth annual international conference on Resaerch in computational molecular biology RECOMB '04**

**Publisher:** ACM Press

Full text available: pdf(98.01 KB) Additional Information: full citation, abstract

Malaria is the cause of significant global morbidity and mortality with 300-500 million cases annually. Despite its disease burden relatively little is known about the molecular biology of the pathogen that causes malaria. For example, the completion of the genome sequence of Plasmodium falciparum, the species responsible for the most severe form of human malaria revealed that only 35% of the genes code for proteins with an identifiable function. In addition, little is known about how transcript ...

3 Structure of a Polish String language for an Algol 60 language processor

Leonard S. Haynes

November 1973 **ACM SIGPLAN Notices , Proceedings of a symposium on High-level-language computer architecture SIGPLAN '73**, Volume 8 Issue 11

**Publisher:** ACM Press
Full text available: pdf(708.70 KB) Additional Information: full citation, references

4 The architecture of an ALGOL 60 computer implemented with distributed processors
Leonard S. Haynes
March 1977 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th annual symposium on Computer architecture ISCA '77**, Volume 5 Issue 7
**Publisher:** ACM Press
Full text available: pdf(599.05 KB) Additional Information: full citation, abstract, references, citings, index terms

In conventional computer systems, the computer hardware does not actual ly execute the user's source program. Instead, a software compiler and link editor transform the program into low level machine code which is executed by the hardware. This mapping from a high-level language to a von Neumann instruction set is a. Computationally costly because compilers and link editors are big and slow. b. Inefficient because the object code is generally poor.

5 Evaluation of incomplete elliptic integrals by gaussian integration
John G. Haynes
January 1956 **Proceedings of the 1956 11th ACM national meeting ACM '56**
**Publisher:** ACM Press
Full text available: pdf(151.43 KB) Additional Information: full citation, abstract, references, index terms

For the first method the classic tables of Legendre1 are available which give functional values of both integrals, to 9 decimal digits of accuracy, by one degree increments of the amplitude and the modulus. For a very restricted range of Ø and k, table look-up with linear interpolation is feasible. For any amount of generality, a rather large table must be stored and non-linear interpolation used. This can become quite costly in both space and time in computers w ...

6 Structure of a Polish String language for an Algol 60 language processor
Leonard S. Haynes
November 1973 **Proceedings of the ACM-IEEE symposium on High-level-language computer architecture**
**Publisher:** ACM Press
Full text available: pdf(722.16 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper reports on the Polish String intermediate language used in the hardware high level language processor for Algol 60. The intermediate language was pinpointed because it is the most important aspect of the language processor, affecting the entire design. The reader is referred to Gries (1) for a good description of the basic operation of a Polish String processor, and to the Bu rroughs B5500 (2) for an example of a system using a Polish String intermediate language. This paper attem ...

7 ORACLE a tool for learning compiler writing
William R. Haynes, Charles E. Hughes, Charles P. Pfleeger
February 1977 **ACM SIGCSE Bulletin , Proceedings of the seventh SIGCSE technical symposium on Computer science education SIGCSE '77**, Volume 9 Issue 1
**Publisher:** ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a compiler called ORACLE which allows a student to examine the actions performed by a simple compiler. Two features are provided to assist the student. The first called replacement mode, provides the necessary conditions to simulate the

replacement of three compiler components: symbol table management, lexical analysis, and syntax analysis. Each replacement module is monitored by ORACLE in order to detect errors and to verify correct operation. The second, a trace optio ...

8 Continuations and coroutines

Christopher T. Haynes, Daniel P. Friedman, Mitchell Wand
August 1984 **Proceedings of the 1984 ACM Symposium on LISP and functional programming LFP '84**
**Publisher:** ACM Press
Full text available: pdf(443.89 KB) Additional Information: full citation, abstract, references, citings, index terms

The power of first class continuations is demonstrated by implementing a variety of coroutine mechanisms using only continuations and functional abstraction. The importance of general abstraction mechanisms such as continuations is discussed.

9 Engines build process abstractions

Christopher T. Haynes, Daniel P. Friedman
August 1984 **Proceedings of the 1984 ACM Symposium on LISP and functional programming LFP '84**
**Publisher:** ACM Press
Full text available: pdf(497.54 KB) Additional Information: full citation, abstract, references, citings, index terms

Engines are a new programming language abstraction for timed preemption. In conjunction with first class continuations, engines allow the language to be extended with a time-sharing implementation of process abstraction facilities. To illustrate engine programming techniques, we implement a round-robin process scheduler. The importance of simple but powerful primitives such as engines is discussed.

10 Government data bases II - GDB II: Geographic data base image processing at Mississippi State

Rena A. Haynes
March 1980 **Proceedings of the 18th annual Southeast regional conference ACM-SE 18**
**Publisher:** ACM Press
Full text available: pdf(376.99 KB) Additional Information: full citation

11 A generalized combinatorial problem

John G. Haynes
August 1962 **Communications of the ACM**, Volume 5 Issue 8
**Publisher:** ACM Press
Full text available: pdf(184.45 KB) Additional Information: full citation

**Keywords:** combinatorial analysis, graph theory, organization of information

12 Expansion-passing style: beyond conventional macros

R. Kent Dybvig, Daniel P. Friedman, Christopher T. Haynes
August 1986 **Proceedings of the 1986 ACM conference on LISP and functional programming LFP '86**
**Publisher:** ACM Press

Full text available: pdf(566.53 KB) Additional Information: full citation, references, citings

13 Constraining control

Daniel P. Friedman, Christopher T. Haynes
January 1985 **Proceedings of the 12th ACM SIGACT-SIGPLAN symposium on Principles of programming languages POPL '85**
**Publisher:** ACM Press
Full text available: pdf(830.31 KB) Additional Information: full citation, abstract, citings, index terms

Continuations, when available as first-class objects, provide a general control abstraction in programming languages. They liberate the programmer from specific control structures, increasing programming language extensibility. Such continuations may be extended by embedding them in functional objects. This technique is first used to restore a fluid environment when a continuation object is invoked. We then consider techniques for constraining the power of continuations in the interest of s ...

14 A simulation of adaptive agents in a hostile environment

Thomas D. Haynes, Roger L. Wainwright
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing SAC '95**
**Publisher:** ACM Press
Full text available: pdf(669.79 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: autonomous agent, genetic programming, parallel evaluation of fitness, variable fitness function

15 Embedding continuations in procedural objects

Christopher T. Haynes, Daniel P. Friedman
October 1987 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 9 Issue 4
**Publisher:** ACM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Continuations, when available as first-class objects, provide a general control abstraction in programming languages. They liberate the programmer from specific control structures, increasing programming language extensibility. Such continuations may be extended by embedding them in procedural objects. This technique is first used to restore a fluid environment when a continuation object is invoked. We then consider techniques for constraining the power of continuations in the interest of s ...

16 Experience with an analytic approach to teaching programming languages

Christopher T. Haynes
March 1998 **ACM SIGCSE Bulletin , Proceedings of the twenty-ninth SIGCSE technical symposium on Computer science education SIGCSE '98**, Volume 30 Issue 1
**Publisher:** ACM Press
Full text available: pdf(728.78 KB) Additional Information: full citation, abstract, references, index terms

Through the use of interpreters it is possible to teach programming languages in an analytic way without the mathematical overhead associated with other formal methods. This is a natural evolution of programming language pedagogy from present approaches that are largely descriptive. As a bonus, students receive training in the use of meta-linguistic abstraction in program design. An example of this approach is presented along

with suggested variations and discussion of a number of practical cons ...

**17** Compiling: a high-level introduction using Scheme

Christopher T. Haynes
March 1997 **ACM SIGCSE Bulletin , Proceedings of the twenty-eighth SIGCSE technical symposium on Computer science education SIGCSE '97**, Volume 29 Issue 1
**Publisher:** ACM Press

Full text available: pdf(664.74 KB) Additional Information: full citation, abstract, references, citings, index terms

Traditional compilation courses use formal methods for parsing, but treat the more important semantic aspects informally. We present a one semester course in which compiler development is reduced to a number of transformation steps, each of which is formally specified, easily tested, and clearly motivated by semantic considerations. The source language is substantial (essentially the host language of the compiler) and the target is a popular RISC architecture.

**18** Type reconstruction for variable-arity procedures

Hsianlin Dzeng, Christopher T. Haynes
July 1994 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1994 ACM conference on LISP and functional programming LFP '94**, Volume VII Issue 3
**Publisher:** ACM Press

Full text available: pdf(963.67 KB) Additional Information: full citation, abstract, references, citings, index terms

An ML-style type system with variable-arity procedures is defined that supports both optional arguments and arbitrarily-long argument sequences. A language with variable-arity procedures is encoded in a core-ML variant with infinitary tuples. We present an algebra of infinitary tuples and solve its unification problem. The resulting type discipline preserves principal typings and has a terminating type reconstruction algorithm. The expressive power of infinitary tuples is illustrated.

**19** Standard-output: Scheme standardization

Christopher T. Haynes
April 1990 **ACM SIGPLAN Lisp Pointers**, Volume III Issue 2-4
**Publisher:** ACM Press

Full text available: pdf(227.04 KB) Additional Information: full citation, abstract, index terms

This is a brief report of efforts to standardize the Scheme programming language. Scheme inherits Lisp's rich set of symbol manipulation primitives, latent storage allocation, dynamic type checking, and simple syntax. Scheme is distinguished from most Lisp dialects by a single variable environment, block structure with static scope, and uniform evaluation of the operator and operand positions of a procedure call. Since there is no storage penalty for tail-recursive procedure calls, they may be u ...

**20** Evaluation methods: Situating evaluation in scenarios of use

Steven R. Haynes, Sandeep Purao, Amie L. Skattebo
November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work CSCW '04**
**Publisher:** ACM Press

Full text available: pdf(374.74 KB) Additional Information: full citation, abstract, references, citings, index terms

We report on the use of scenario-based methods for evaluating collaborative systems. We describe the method, the case study where it was applied, and provide results of its efficacy in the field. The results suggest that scenario-based evaluation is effective in helping to focus evaluation efforts and in identifying the range of technical, human,

organizational and other contextual factors that impact system success. The method also helps identify specific actions, for example, prescriptions ...

**Keywords**: CSCW, computer-supported cooperative work, evaluation, scenario-based evaluation

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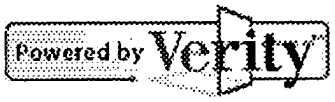


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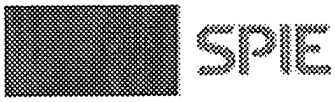


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